

DATA FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS
GC SEMI-VOLATILES
METALS
GENERAL CHEMISTRY

PROJECT NAME : SUPERIOR BARREL AND DRUM

KEMRON ENVIRONMENTAL SERVICES
1359-A Ellsworth Industrial Boulevard, NW

Atlanta, GA - 30318
Phone No: 404-636-0928

ORDER ID : F2163
ATTENTION : Janelle Murphy



DoD ELAP



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date : 05/06/2014

Dear Janelle Murphy,

2 soil samples for the **Superior Barrel and Drum** project were received on **04/29/2014**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Reginald St-Juste

908-728-3147

Reginald@chemtech.net



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number	F2163
COC Number	

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to		PROJECT NAME: Superior Barrel & Drum		BILL TO: KEMRON Environmental Services PO#	
COMPANY: KEMRON Environmental Services		PROJECT #: LOCATION: Glassboro, NJ		ADDRESS: 1359A Ellsworth Industrial Blvd.	
ADDRESS: 1359A Ellsworth Industrial Blvd.		PROJECT MANAGER: Gary Beland		CITY: Atlanta STATE: GA ZIP: 30318	
CITY: Atlanta STATE: GA ZIP: 30318		E-MAIL: gbeland@kemron.com		ATTENTION: Accounts Payable	
ATTENTION: Janelle Murphy		PHONE: 404 242 6014 FAX:		PHONE:	
PHONE: 404 242 6014 FAX:					

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																													
FAX: DAYS*		<input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP		<table border="1"><thead><tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th></tr><tr><th>TCLP VOA</th><th>TCLP BNA</th><th>TCLP 8 Metals +N</th><th>Reactivity</th><th>Final point/ignite</th><th>Consistency</th><th>Total Solids</th><th>PCB Scan</th><th>TOX</th></tr></thead><tbody><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>										1	2	3	4	5	6	7	8	9	TCLP VOA	TCLP BNA	TCLP 8 Metals +N	Reactivity	Final point/ignite	Consistency	Total Solids	PCB Scan	TOX	1	2	3	4	5	6	7	8	9									
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS			
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	Specify Preservatives A-HCl B-HNO4 C-H2SO13 D-NaOH E-ICE F-OTHER			
1.	Debris	S		X	4/29/2014	11:00	5	X	X	X	X	X	X	X	X	X				
<div>Copy</div> <div>Original Documents are included in CSR F2162</div> <div>Copy</div> <div>Signature</div> <div>4/29/2014</div> <div>Date</div>																				

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY									
RELINQUISHED BY SAMPLER		DATE/TIME 122		RECEIVED BY		Conditions of bottles or collars at receipt: → COMPLIANT → NON COMPLIANT → COOLER TEMP SE			
1. J. Hinton Hille		4/29/14 Pm		1. L. Carter		MeOH extraction requires an additional 4oz. Jar for percent solid			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		Comments:			
2.				2.					
RELINQUISHED BY		DATE/TIME 1545		RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: → Hand Delivered →			
3. L. Carter		4/29/14		3. W		Overnight CHEMTECH: → Picked Up →			
						Shipment Complete YES → NO			

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

#



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14 11:00
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	F2163
Lab Sample ID:	F2163-01	Matrix:	SOIL
		% Solid:	95.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.69		1	0	0	0	pH	04/30/14	04/30/14 09:21	SW9045C
Ignitability	NO		1	0	0	0	o C	05/05/14	05/05/14 08:45	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	04/30/14	05/01/14 15:44	9012B
Reactive Sulfide	14		1	10	10	10	mg/Kg	04/30/14	04/30/14 16:00	9034

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	F2163
Lab Sample ID:	F2163-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	4.8
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB Group1
GPC Factor :	1.0	Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PC017093.D	1	04/30/14	05/01/14	PB76320

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	3.5	U	3.5	3.5	17.8	ug/kg
11104-28-2	Aroclor-1221	3.5	U	3.5	3.5	17.8	ug/kg
11141-16-5	Aroclor-1232	3.5	U	3.5	3.5	17.8	ug/kg
53469-21-9	Aroclor-1242	3.5	U	3.5	3.5	17.8	ug/kg
12672-29-6	Aroclor-1248	3.5	U	3.5	3.5	17.8	ug/kg
11097-69-1	Aroclor-1254	3.5	U	1.6	3.5	17.8	ug/kg
11096-82-5	Aroclor-1260	3.5	U	3.5	3.5	17.8	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	283	*	10 - 166		1416%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		60 - 125		89%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	F2163
Lab Sample ID:	F2163-01	Matrix:	TCLP
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE085413.D	1	05/02/14	05/02/14	PB76381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	10	U	2	10	100	ug/L
95-48-7	2-Methylphenol	10	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	34.6	J	3.8	10	100	ug/L
67-72-1	Hexachloroethane	10	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	10	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	10	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	10	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	10	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	10	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	110		10 - 130		71%	SPK: 150
13127-88-3	Phenol-d6	97.1		10 - 130		65%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.4		36 - 131		83%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.1		39 - 131		90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		82%	SPK: 150
1718-51-0	Terphenyl-d14	75.9		23 - 130		76%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	677727	5.43				
1146-65-2	Naphthalene-d8	2638330	7.83				
15067-26-2	Acenaphthene-d10	1443710	11.44				
1517-22-2	Phenanthrene-d10	2349120	14.58				
1719-03-5	Chrysene-d12	2269130	20.18				
1520-96-3	Perylene-d12	2146550	22.99				



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Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	F2163
Lab Sample ID:	F2163-01	Matrix:	TCLP
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE085413.D	1	05/02/14	05/02/14	PB76381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	F2163
Lab Sample ID:	F2163-01	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	50	U	1	42	50.0	100	ug/L	05/01/14	05/01/14	SW6010
7440-39-3	Barium	245	J	1	40	250	500	ug/L	05/01/14	05/01/14	SW6010
7440-43-9	Cadmium	15	U	1	5	15.0	30	ug/L	05/01/14	05/01/14	SW6010
7440-47-3	Chromium	416		1	11	25.0	50	ug/L	05/01/14	05/01/14	SW6010
7439-92-1	Lead	30	U	1	26	30.0	60	ug/L	05/01/14	05/01/14	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	05/01/14	05/01/14	SW7470A
7440-02-0	Nickel	78.2	J	1	42	100	200	ug/L	05/01/14	05/01/14	SW6010
7782-49-2	Selenium	50	U	1	48	50.0	100	ug/L	05/01/14	05/01/14	SW6010
7440-22-4	Silver	25	U	1	15	25.0	50	ug/L	05/01/14	05/01/14	SW6010

Color Before:	Yellow	Clarity Before:	Texture:	Clear
Color After:	Yellow	Clarity After:	Artifacts:	Clear
Comments:	TCLP Mercury			

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Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14
Project:	Superior Barrel and Drum	Date Received:	04/29/14
Client Sample ID:	DEBRIS	SDG No.:	f2163
Lab Sample ID:	F2163-01	Matrix:	TCLP
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015036.D	5		05/02/14	VN050214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	2.5	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.5	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	12.5	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	2.5	U	1	2.5	25	ug/L
67-66-3	Chloroform	2.5	U	1.7	2.5	25	ug/L
71-43-2	Benzene	2.5	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	3.8	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	2.5	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	2.5	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		61 - 141		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133		101%	SPK: 50
2037-26-5	Toluene-d8	57.1		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		58 - 135		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	288082	7.87				
540-36-3	1,4-Difluorobenzene	453540	8.78				
3114-55-4	Chlorobenzene-d5	403010	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	148872	13.56				

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VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS
GC SEMI-VOLATILES
METALS
GENERAL CHEMISTRY

PROJECT NAME : SUPERIOR BARREL AND DRUM

KEMRON ENVIRONMENTAL SERVICES
1359-A Ellsworth Industrial Boulevard, NW

Atlanta, GA - 30318
Phone No: 404-636-0928

ORDER ID : F2163
ATTENTION : Janelle Murphy



DoD ELAP



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

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Chemtech Project Number	F2163
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CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to		PROJECT NAME: Superior Barrel & Drum		BILL TO: KEMRON Environmental Services PO#	
COMPANY: KEMRON Environmental Services		PROJECT #: LOCATION: Glassboro, NJ		ADDRESS: 1359A Ellsworth Industrial Blvd.	
ADDRESS: 1359A Ellsworth Industrial Blvd.		PROJECT MANAGER: Gary Beland		CITY: Atlanta STATE: GA ZIP: 30318	
CITY: Atlanta STATE: GA ZIP: 30318		E-MAIL: gbeland@kemron.com		ATTENTION: Accounts Payable	
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS			
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	Specify Preservatives A-HCl B-HNO4 C-H2SO13 D-NaOH E-ICE F-OTHER			
1.	Debris	S		X	4/29/2014	11:00	5	X	X	X	X	X	X	X	X	X				
<div>Copy</div> <div>Original Documents are included in CSR F2162</div> <div>Copy</div> <div>Signature</div> <div>4/29/2014</div> <div>Date</div>																				

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY									
RELINQUISHED BY SAMPLER		DATE/TIME 122		RECEIVED BY		Conditions of bottles or collars at receipt: → COMPLIANT → NON COMPLIANT → COOLER TEMP SE			
1. J. Hinkle		4/29/14 Pm		1. L. Carter		MeOH extraction requires an additional 4oz. Jar for percent solid			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		Comments:			
2.				2.					
RELINQUISHED BY		DATE/TIME 1545		RECEIVED FOR LAB BY		SHIPPED VIA:			
3. L. Carter		4/29/14		3. W		CLIENT: → Hand Delivered →			
						Overnight CHEMTECH: → Picked Up →			
						Shipment Complete YES → NO			

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

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Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14			
Project:	Superior Barrel and Drum	Date Received:	04/29/14			
Client Sample ID:	DEBRIS	SDG No.:	F2163			
Lab Sample ID:	F2163-02	Matrix:	TCLP			
Analytical Method:	SW8151A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	100	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	TCLP Herbicide	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PE009311.D	1	05/07/14	05/08/14	PB76466

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	512		43 - 172		103%	SPK: 500

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	KEMRON Environmental Services	Date Collected:	04/29/14			
Project:	Superior Barrel and Drum	Date Received:	04/29/14			
Client Sample ID:	DEBRIS	SDG No.:	F2163			
Lab Sample ID:	F2163-02	Matrix:	TCLP			
Analytical Method:	SW8081	% Moisture:	100	Decanted:		
Sample Wt/Vol:	100	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	TCLP Pesticide	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD022212.D	1	05/07/14	05/08/14	PB76467

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
58-89-9	gamma-BHC (Lindane)	0.1	U	0.055	0.1	0.5	ug/L
76-44-8	Heptachlor	0.1	U	0.069	0.1	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.1	U	0.067	0.1	0.5	ug/L
72-20-8	Endrin	0.1	U	0.058	0.1	0.5	ug/L
72-43-5	Methoxychlor	0.1	U	0.05	0.1	0.5	ug/L
8001-35-2	Toxaphene	1	U	1	1	5	ug/L
57-74-9	Chlordane	1	U	1	1	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	23		10 - 192		115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.7		10 - 172		108%	SPK: 20

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